NAT Support for QUIC

draft-duke-quic-natsupp-02
TL;DR

• NATs should treat QUIC like any other UDP packet; if they try to use the Connection ID they’ll break something
Client NAT

Client 1

10.0.0.1:20000 CID A

1.2.3.4:19000 CID A

NAT

1.2.3.4:19000 CID B

Client 2

10.0.0.5:20001 CID B

Works great until the CIDs change – then it black holes
Server NAT

Routing infrastructure here is 5-tuple based

Bypasses validation procedures

Doesn’t work when CID changes (migration)
Document Status

• Currently an individual draft in QUICWG

• Any outcome is fine
  - Incorporate text into QUIC operations draft
  - Reference an expired individual draft in QUIC ops draft
  - Standalone Informational RFC
  - Drop it altogether